

## Aerospace Documentaries LRD

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Signature	contents
LR 00923	Air defence: anti-aircraft
LR 00929	guns, radar Air defense: anti-aircraft guns, anti-aircraft guns, air
LR 00935	defense, shelters Combat and reconnaissance weapons, bombs, rockets <i>Contains:</i> among other things: anti-tank missiles; anti-aircraft missiles; Guided bombs <i>Note:</i> Mostly after 1945, but also rocket tests with Ju-87
LR 01620-01	Aviation: Press Clippings <i>Contains:</i> among other things: Articles on aircraft (aircraft crashes, starfighters), anti-aircraft guns (barrage, Second World War), Deutsche Lufthansa, space travel <i>Intus:</i> Sectional drawing of a zeppelin <i>Duration:</i> 1940 - 1954
LR 02119	Military photo album <i>Contains:</i> among other things: 3 photographs of an anti-aircraft position, one with a range finder on a tripod <i>Duration :</i> approx . apparently album of German soldiers or military advisors
LR 02449	Henschel: Hs-130; Hs-132; Hs-P-135; Hs-293 <i>Contains:</i> ia manual Hs 293 A-1. March 1944. Copy 167 pages with 185 pictures and 1 table of numbers. [p. II "Introduction to the field of glide bombs... Detailed instructions for technical personnel are not included in this book.] Faint photocopy, some pages barely legible <i>Intus:</i> data sheets Hs-117-H ("Butterfly"), Hs-295, Hs-298 (in: Hs-293)
LR 02616	Junkers Ju-87 Photos <i>Contains:</i> among others: Anti-aircraft hits Ju-87; Zeroing
LR 04725	in Ju-87 missiles and rocket weapons Germany Second World War, letters W - X <i>Contains:</i> va: waterfall; Ruhrstahl X-4 <i>Intus:</i> Reproductions of diagrams by the Römer brothers for various rockets and missiles (including Fi-103 / "V-1", A-4 / "V2")  <i>Duration:</i> 1939 - 1945
LR 04726	Missiles and rocket weapons Germany Second World War <i>Contains:</i> AGARD conference on V-weapons, Munich, 1956, among other things on remote control, anti-aircraft missiles, infrared location <i>Duration:</i> 1939 - 1945
LR 04728	Missiles and rocket weapons Germany World War II, Letters BI to H <i>Contains:</i> Flying Torpedoes; As-292 (drone); BV-246; BV-328 (references only); BV-LT; Dietl-Jäger; "Gentian"; BV-226 "Fire Lily"; "Fritz-X"; "Pike"; "hellhound"; Hs-117 "Butterfly"; Hs-294; Hs-295; Hs-297 (Miniature anti-aircraft missile); Hs-298; Hs-315 <i>Duration:</i> 1939 - 1945
LR 04729	Missiles and rocket weapons Germany Second World War, letters K to T <i>Contains:</i> among other things Rheinbote, Rheintochter anti -aircraft missiles <i>Duration:</i> 1939 - 1945

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LR 04735	Missiles and rocket weapons Germany Second World War <i>Contains:</i> A-4 ("V-2"), Wasserfall <i>Duration:</i> 1939 - 1945
LR 04736	Missiles and rocket weapons Germany Second World War: Anti-aircraft rockets Enzian, R drives (Schmidding company), TL drives, directive of Reich Marshal Göring 1942 <i>Contains:</i> among other things Schmidding works Bodenbach - Cologne Sc 2/3 RLA/Degussa/Schmidding. Minutes of the meeting in Bodenbach regarding the 50 kg/h test facility. December 1943. 6 Blatt Sc 83 Articles of Association for the Production of R Fuels (Liquid), 1944.  Sc 85 interest and joint venture agreement [between DEGUSSA and Schmidding] (draft) [foundation of FOGIVA, research company for process engineering mbH, Cologne]. Contains list of inventions and patent applications for the manufacture and use of methyl nitrate as an R-fuel. [1944/1945]  Sc 106 Use of insulation material Iporka, 1942. Sc 126 Report on Canzler's lecture regarding replacement materials in apparatus engineering (VDI), 1941. Sc 127 synthetic wood panels as new material and material alloys. 1941 <i>Running time:</i> 1939 - 1945 1 box
LR 04736-01 "Waterfall" anti-aircraft missile (reports)	1 box
LR 04736-02 "Waterfall" anti-aircraft missile (calculations)	1 box
LR 04747	Missile, Surface-to-Air Missile, Flak, East/West A - Z <i>Duration:</i> 1935 - 1962
LR 04773	Missiles, missile weapons USA, NATO: surface-to-air systems, radar reconnaissance <i>Duration:</i> 1945 -
LR 05335	Junkers aircraft and engine works JFM propaganda and press service: military aviation: anti-aircraft defense, balloon barriers. ML 2 Junkers aircraft
LR 05336	and engine works JFM propaganda and press service: military aviation: anti- aircraft Flak. ML 3 Junkers aircraft and engine works JFM Propaganda and
LR 05516	press service: War archives: Foreign press: Flights and their defense.  A130
LR 05519	Junkers aircraft and engine works JFM Propaganda and press service: War archives: German press: Flight defense part 1 <i>Duration:</i> 09.1939 - 12.1943
LR 05520	Junkers aircraft and engine works JFM Propaganda and press service: War archives: German press: Flight defense part 2 <i>Duration:</i> 01.1944 - 02.1945

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LR 05670	Junkers aircraft and engine works JFM Propaganda and press service: War archives: Theaters of war: Anglo-American flights and their defense. KS2 Scientific reports on German remote-controlled missiles up to
LR 10438	1945 <i>Contains</i> : among other things: waterfall experiments; waterfall with Messima device; Air torpedo PC-500 RSW (inter alia: Walter, H.: test results of the air torpedo PC-500 RSW, Luftwaffe testing station, Karlshagen, 1939); ZLD remote controls for Fieseler Fi-103, Henschel Hs-293 and Fritz-X; Shooting valves with explosives actuation (including GD 660.0.25 FE 725/4); "Definition of the K 12 steering gear [of the Hs-293?] through design measures"
	<i>Intus</i> : Technical drawings FZG-76 from the Tekniska Museet Stockholm (1974)
	<i>Duration</i> : 1944 - 1945, 1974
LR 10439	Missiles Germany: A3, X4, [X-7], Thor <i>Contains</i> : among other things: Parts of the "Das Aggregat III" file. Peenemuende, 29. November 1937. 8 copies 1st copy with the note: GM 11.0 R Complete report on the Model A3 (Experimental liquid fuel rocket) [further parts see Peenemünde Blue Series box 227 91/5 and box 245 109/2]; Technical drawings for the 8-344 [Kramer X-4] (line plan, circuit diagrams); Technical drawing "ground shot" for the 8-347 [Kramer X-7] <i>Duration</i> : 1938 - 1944 <i>Remark</i> : Reports
LR 11282	Rockets and Missiles: A to Amos <i>Contains</i> : AA-12 / RVV-AE (Air-to-Air); AA-(Air-to-Air) general; AAM-L/Ks-172 (air-to-air); AAM (air to air); AAM-AE (Air-to-Air); AAAM (air to air); A-3-M (DASA study air-to-air); Abbas (ground to ground); ACCP (anti-tank); AC-3-G (anti-tank); Acrid / AA-6 (Air-Air); ADATS (surface-to-air / anti-tank); AGCW (Flight Control for Missiles); AGM-65-G "Maverick" (air-to-ground); AGM-84 Slam/Harpoon (air-to-surface/naval combat); AGM-86-C (air-to-surface cruise missile); AGM-88 "Harm" (anti-radar); AGM-129 (air-to-surface cruise missile); AGM-130 (air-to-ground); AGM-154-A (air-to-ground); AIM-9-X (air-to-air); AIWS (Air-to-Ground); Alamo/AA-10 (air-to-air); alarm (anti-radar); ALCM (Air-to-Surface Cruise Missile); ALE-40 (countermeasures); alkaline / AA-1 (air to air); AM-39 Exocet (air-to-ground); Amos/AA-9/R-33 (Air-to-Air)
LR 11285	Rockets and Missiles: Aster through CH-23 <i>Contains</i> : Aster (Surface-to-Air); Astor (air patrol aircraft); ATGW (anti-tank); ATM-84-D Block 1-C "Harpoon" (anti-submarine warfare); Atoll / AA-2 (air-to-air); Avenger (surface-to-air; launch system for Stinger / Starstreak); Bloodhound (ground to air); BM-21 (ground to ground); BMDO (ground to air); BQM-74 (homing missile); bolide (ground-to-air); Brave (drone); Brevel (drone); Brimstone (anti-tank; developed from AGM-114 Hellfire); Burlak (low orbit airborne transport rocket); Bushcat (air to ground); Cascow (standoff missile); C-22 (target missile); CBU-87 (air to ground); CH-23 (air to ground)

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LR 11286	<p>Rockets and Missiles: CH-25 to Eris <i>Contains:</i>            CH-25 / AS-10 "Karen" (Air-to-Surface); CH-28/AS-9 "Kyle" (anti-radar); CH-29/AS-14 "Kedge" (air-to-ground); CH-31 / AS-17 "Krypton" (anti-radar); CH-35 / AS-X-20 (anti-ship); CH-58 / AS-11 "Kilter" (anti-radar); CH-59-M/AS-18 "Kazoo" (Air-to-Ground); CH-66/AS-7 "Kerry" (air-to-ground); CL-289 (drone); Crotale NG (Surface-to-Air Missile System); DAR (anti-radar drone); Darkfire (surface-to-air missile system); DWS (Air-to-Surface Cluster Weapon System); DC-X Delta Clipper VTOL; Ehud (flight profile recorder); EloGM "mosquito" (Drone); ELS (Fire Control System); gentian (ground-air); Erint (ground to air); Eris (surface-to-air; ballistic missile defense)</p>
LR 11287	<p>Rockets and Missiles: Eryx through Hawk  <i>Includes:</i> Eryx (Anti-Tank); Eurosam (Soil to Air Systems); Exocet general (anti-ship systems); torches in general; Falcon / AIM-4 (air-to-air); fire streak (air-to-air); FLIR (infrared camera); FMRAAM (air-to-air); FSRAAM (air to air); Harm (anti-radar); Harpoon (sea target combat); Hawk (surface to air)</p>
LR 11288	<p>Missiles and Missiles: HEDI to Marte <i>Includes:</i>            HEDI (Surface-to-Air / Anti-Ballistic Missile Defense); Hellfire (surface-to-air / air-to-air); Hot (anti-tank); Hughes general (Technology 1st Gulf War 1991); IRIS-T (air-to-air); JASSM (air-to-ground); JSOW (air-to-ground); JTIDS/ MIDS (Tactical Digital Communications System); cormorant (sea target combat); K-37 (air-to-air); KH-31 (air-to-air); KZO (drone); LAMS (ground to air); Lantirn (target detection for remote control of glide bombs); Laserfire (surface to air); Litening (target detection for remote control of glide bombs); Lorelei (homing missile); Losat (above all anti-tank); LRSOM (Distant Missile); Magic (air-to-air / anti-tank); Mamba-L; MARS/ MLRS (ground-to-ground); Marte (sea target engagement)</p>
LR 11289	<p>Rockets and Missiles: Maverick to Mygale <i>Includes:</i>            Maverick / AGM-65 (Air-to-Surface); MDS (Submunition Cluster Weapon System); MICA (air to air); MICASRAAM (air to air); Milan (anti-tank); Milas (anti-submarine warfare); Mistral (Soil to Air / Air to Air); MM-15 (anti-ship); Mobidic (submunition cluster weapon system); MLRS (ground to ground system); Molnja / CH-29 / AS-14 "Kedge" (air-to-ground); Moskit (anti-ship combat based on the SS-N-22 "Sunburn"); MRAAM/S-225-X (air-to-air); MW-1 (submunition cluster weapon system); Mygale (ground to air)</p>
LR 11290	<p>Rockets and Missiles: NASAMS to <i>Includes:</i>            NASAMS Fire Control Station (Surface-to-Air); Nite Hawk (target detection for remote control of glide bombs); NLOS / FOG-M (ground to ground); Pantsyr-S-1 (surface to air system); PARS-3 (anti-tank); Patriot (surface to air system); Pegasus (Low Orbit Air Launch Vehicle)</p>

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LR 11291	<p>Rockets and Missiles: Penguin through RAM</p> <p><i>Includes:</i> Penguin (anti-ship); Pershing (ballistic missile with a nuclear warhead); PGM (Air-Ground; with Lancelot); Phoenix/AIM-54 (air-to-air); Piver (drone system with CL-289); PL-9 (Surface to Air System); Polyphemus (ground to ground); Python (air to air); R-27 (air to air); R-37 (air to air); R-60 (air to air); R-73 (air to air); RB-90 (surface to air); Rafael in general; Rainbow Tacit (anti-radar); RAM (ship-air)</p>
LR 11292	<p>Rockets and Missiles: Rapier through Seawolf</p> <p><i>Includes:</i> Rapier (surface-to-air); Rhine Daughter R-3 (surface-to-air); Roland (ground to air); SA-5 "Gammon" / S-200 Vega (surface-to-air); SA-8 "Gecko" / OSA-AK (Surface-to-Air); SA-10/S-300 "Grumble" (surface-to-air); SA-12-A / S-300-V "Gladiator" (ground-to-ground); SA-12-B / S-300-V "Giant" (ground-to-ground / ground-to-air); SA-16 Igla / "Needle" (surface-to-air); SAM / surface-to-air-missile (surface-to-air) in general; SCUD (ground to ground); Sea Eagle (sea target combat); Sea Skua (Helicopter Sea Target); Floor; Sea Sparrow (ship-air); SEAD (Surface to Air System; reference only); Seamos (drone); Seawolf (sea target combat)</p>
LR 11293	<p>Rockets and Missiles: Sidewinder through THAAD</p> <p><i>Includes:</i> Sidewinder / Aim-9 (Air-to-Air / Surface-to-Air); Sky Flash (air to air); Skyshark (air-to-ground); Slam / Grand Slam (air-to-ground); Somchem general (air to air); Sparrow / Aim-7 (air-to-air / surface-to-air); SRAM (air to ground); SRARM (anti-radar); SRAMT (air-to-surface with nuclear warhead); S-25 (air to ground); SS-9 "Scarp" (ICM); SS-10 (intercontinental ballistic missile); SS-18 "Satan" (ICM); SS-24 (ICBM); SS-NX-24 (ICBM); SS-25 (intercontinental ballistic missile); SSC-X-4 (ground to ground); Starstreak (air to air); Stinger (ground-to-air / air-to-air); TADS (Submunition Cluster Weapon System); TASM (Air-to-Ground); THAAD (Surface-to-Air / Anti-Ballistic Missile Defense)</p>
LR 11294	<p>Rockets and Missiles: TIALD to Trigat <i>Contains:</i></p> <p>TIALD (target detection for remote control of glide bombs); Tien-Kung-I / "Skybow-I" (Ground-Air); Tomahawk (cruise missile); TOW (anti-tank); Trigat (anti-tank)</p>
LR 11295	<p>Rockets and Missiles: TSSAM to Z; Missiles in general <i>Includes:</i></p> <p>TSSAM (Cruise Missile); Tunguska (ground to air system); UAV (drone); UKADGE / United Kingdom Air Defense Ground Environment; VBW (Cluster Weapon System for Submunitions); Volkhov in general; VT-1 (Surface to Air System); WE-177 (nuclear warhead bomb); XASM-2 (anti-ship); X-25 (anti-ship); X-31 (anti-ship/anti-radar); X-35 (anti-radar); ZT-6 (anti-tank); Zvezda in general; Rockets and missiles in general (with overview of rockets and missiles: World missile directory. in: Flight International, 1985)</p> <p><i>Intus:</i> World missile directory. in: Flight International, 1985 (overview of rockets and missiles)</p>

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LR 20112	<p>photography (48); postcard (1); newspaper clipping (7)</p> <p>Early Airplanes and Pilots</p> <p><i>Contains:</i> Newspaper clippings: Roy Brown's account of the shooting down of Manfred v. Richthofen's by Australian flak ("You only fly in your thoughts"), Chamberlin ocean aviator caricature, photo print by Fitzmaurice, Köhl and Hünefeld; Photographs of aircraft: early types (Blériot F "CB"; biplane); German fighter planes of the First World War (partly broken); Aircraft with registrations (D-60, D-89, D-412, D-453 [break], D-796, D-818 [with advertising "Münchner-Jllustrite III" and Acrobat in flight], D-978, D -1153 [inscribed "Mouson"], D-1527, D-INEZ, D-IXIH); Unidentified biplanes (Raab-Katzenstein, Hoffer, Royal Air Factory SE-5 [of the Lafayette Escadrille?]; Focke-Wulf A-16-d / A-17 "Möwe"; [racing monoplane]</p> <p>"38"; passenger plane "[Koben]havn" [similar to Farman F-60 Goliath]); Photographs of aircraft production: series installation of radial engines; Photographs of pilots: Gerhard Fieseler, Thea Rasche, Manfred v. Richthofen, English pilot [?]</p> <p><i>Intus:</i> Photograph of parachutist Hedy Schumann after the jump; Postcard with a portrait drawing of the airship captain Hugo Eckener <i>Duration:</i> undated (ca. 1912-1935)</p> <p><i>Remark:</i> Partly as photo postcards (mainly people)</p>
LR 20217	<p>Publication - Print (1)</p> <p>Air News School (Halle (Saale)): Flight reporting service. Booklet 1.</p> <p>Aircraft identification service</p> <p><i>Contains:</i> Three-side views and oblique views of German, Italian, British and Soviet ("Russia") aircraft with a brief description of optical features <i>Duration:</i> 01.1942 <i>Comment:</i> Training documents; "Approved for issue to the troops [...]"</p>

40 p.